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**PLANT 1 ORE SILOS**

**09/30/93**

**C:OP:93-1414**  
**FERMCO/DOE-FN**  
**2**  
**LETTER**



Restoration Management Corporation

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P.O. Box 398704 Cincinnati, Ohio 45239-8704 (513) 738-6200

September 30, 1993

U. S. Department of Energy  
Fernald Environmental Management Project  
Letter No. C:OP:93-1414

Mr. J. Phil Hamric, Manager  
Department of Energy  
Fernald Field Office  
P. O. Box 398705  
Cincinnati, Ohio 45239-8705

Dear Mr. Hamric:

**CONTRACT DE-AC05-92OR21972, PLANT 1 ORE SILO**

Reference: DOE letter DOE-2807-93, Plant 1 Ore Silo, from Raymond J. Hansen to Mr. N. C. Kaufman, dated August, 1993

Recently, concerns were raised by FERMCO and DOE regarding the stability of the tall tile silos at Plant 1 as part of the Plant 1 Ore Silo Removal Action #13. FERMCO initiated several steps to address the items mentioned in the referenced letter in addition to other stability issues. The following items were accomplished to ensure the appropriate engineering controls were in place to alleviate the concerns:

1. Performed Catastrophic Failure Analyses on the southwest tile silo.
2. Developed a Statement of Work and specifications for the southwest silo tile repair to stabilize the top two rows of tiles by applying grout to the areas where tiles are missing.
3. Developed specifications for a shrink-wrap to apply around the top 5 feet of the silo to prevent additional clay tiles from falling.
4. Performed wind load analysis to evaluate the impact of removal of the connecting platform from the top of the silos.

The corrective actions identified in items 1 through 3 are detailed in Attachment I.

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The conclusion of the wind load analysis performed by PARSONS and concurred by FERMCO is that the southwest tall tile silo is capable of withstanding an 80 mph wind speed in a free-standing condition once the repairs are made to increase the silo stability with a portion of the platform remaining on the concrete cap. PARSONS also concludes that the connecting access platform be removed expeditiously because it is not required for stability. Details of the analysis are contained in Attachment II.

Sincerely,

A handwritten signature in dark ink, appearing to read "N. C. Kaufman". The signature is written in a cursive style with a large, stylized "K" and "M".

N. C. Kaufman  
President

NCK:CLG:wjw  
Attachment

c: Robert Mendelsohn, DOE Contract Specialist  
M. Albertin, MS72  
D. G. Balzen, MS44  
R. C. Farr, DOE-FN, MS45  
C. L. Griffin, MS76  
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CRU3 Project Files  
AR Files